

1 bullet would. So it would be "the magnitude of
2 correction diminishes over time." The next bullet:
3 "The proportion of intended correction retained beyond
4 12 months is undetermined."

5 DR. SUGAR: Is there a second to that?

6 DR. GRIMMETT: Did she accept the amendment?

7 DR. SUGAR: Okay, I guess you can -- her
8 motion was a not seconded --

9 DR. WEISS: Jayne Weiss. So just to clarify,
10 you would agree with CK treatment for the temporary
11 reduction of spherical hyperopia and then everything else
12 that I mentioned stayed the same except for the last two
13 bullets, the magnitude of correction diminishes over time
14 and the proportion of intended correction retained beyond
15 12 months is undetermined. I would second that.

16 DR. SUGAR: Discussion? Dr. Pulido?

17 DR. PULIDO: Jose Pulido. Again, my concern
18 is the last two bullets have nothing to do with
19 indications. It's labeling. And by putting "temporary"
20 you already have taken care of the last two bullets and you
21 can -- I would rather have that shifted -- those last two
22 bullets some modification of the last two bullets shifted
23 over to the labeling.

24 DR. SUGAR: Other comments?

25 MR. MCCARLEY: Yes, may I suggest that we

1 keep the first three bullets as they are and simply have a
2 footnote at the word "reduction" and indicate the last two
3 items with some wordsmithing to take out the percentage and
4 so forth, so there's a clarification of what reduction of
5 spherical hyperopia means and then again include this
6 language in the labeling portion of it.

7 DR. SUGAR: So you're not including the word
8 "temporary" or are you including the word "temporary"?

9 MR. MCCARLEY: I am not. I am defining it
10 with the use of the last two paragraphs. I would also --
11 yes, I would also include the word "temporary."

12 DR. SUGAR: Okay.

13 MR. MCCARLEY: But I would do it as a
14 footnote along with the last two points.

15 DR. SUGAR: Okay. Certainly that's gentler.
16 Further discussion of that?

17 I think that we need to have the motion -- I
18 guess we're still discussing a motion that's been seconded
19 and the discussion has suggested that the last two bullets
20 be eliminated from the indications and that the word
21 "temporary" be included, although a suggestion has been
22 made that the "temporary" be footnoted and the other two
23 things be footnoted.

24 I'd like to ask our expert on footnoting to
25 discuss this. Mike? Dr. Grimmett, the footnote expert.

1 For those of you who didn't read his review, it was highly
2 footnoted.

3 DR. GRIMMETT: I would, if the word
4 "temporary" is going to be used and the pro for the word
5 "temporary" is that it's easily understandable by the
6 consumer. It's easily recognizable. If the word
7 "temporary" is going to be used, I would put it in the
8 first sentence. I wouldn't footnote it. It's either there
9 or not. I wouldn't put it down, but the word "temporary",
10 I agree with Dr. Pulido that the last two bullets, the word
11 "temporary" replaces those. You're saying the same thing
12 in a different way. I don't think you need to double say
13 it. You either say "temporary" or you say the last two
14 bullets, one or the other.

15 DR. SUGAR: Jayne?

16 DR. WEISS: Jayne Weiss. I think I could
17 agree with that because it would be easily understandable,
18 succinct and the other two statements could be put in
19 labeling, if necessary. I would like the word "temporary"
20 though, not to be footnoted because I think it makes it
21 less clear, less obvious and less understandable.

22 DR. SUGAR: Okay, this is Tim's motion? Am I
23 correct? Whose motion is it?

24 DR. WEISS: Actually, Tim's was an amendment
25 to mine and Jose's was an amendment to Tim's, so I think

1 we're at Dr. Pulido's at this point.

2 DR. SUGAR: So you've restated your motion
3 that it's the first three bullets with the word "temporary"
4 added?

5 DR. WEISS: Yes.

6 DR. SUGAR: Is there any additional
7 confusion? Any additional discussion?

8 Please.

9 DR. MATHERS: This is going to be seen as one
10 way of handling this problem. We might also consider a
11 different motion, but we're going to vote on this motion
12 now as it stands, is that right?

13 DR. SUGAR: There's a motion on the floor
14 that needs to be dealt with and then we could proceed with
15 whatever other motions seem appropriate.

16 So we're going to vote on this, yes. And I
17 think it's now appropriate to vote. All those in favor of
18 the motion, signify by raising their hand?

19 MS. THORNTON: Wait, could you just read

20 --

21 DR. SUGAR: Yes, the motion is the indication
22 for use is CK treatment for the temporary reduction of
23 spherical hyperopia in the range of +.75 to +3.25 diopters
24 of cycloplegic spherical hyperopia; -3.75 diopter or less
25 of refractive astigmatism, +.75 to +3.00 diopters of

1 cycloplegic spherical equivalent in patients with less than
2 .50 diopter difference between preoperative manifest and
3 cycloplegic refraction who are 40 years of age or older.

4 [Vote taken.]

5 All those in favor of motion? Seven.

6 All those opposed? Two.

7 The motion carries.

8 MS. THORNTON: Wait.

9 DR. SUGAR: Am I wrong? We have 12.

10 MS. THORNTON: We have 10 votes all together.

11 Could you raise your hands?

12 DR. SUGAR: There are supposed to be 12
13 people and there were 7 and 3.

14 MS. THORNTON: Okay, sorry.

15 DR. SUGAR: Seven to three. I abstained.

16 DR. ROSENTHAL: What was the tally?

17 DR. SUGAR: Seven to three. We now move on
18 to specifying the conditions because we now have the
19 indication. We've specified the conditions and I'd like a
20 motion concerning -- I'm doing it wrong.

21 MS. THORNTON: The condition that you just
22 discussed was the change in indication. The next condition
23 that you're going to discuss is probably a labeling going
24 on into your labeling. But the change in indication is one
25 of the conditions of the approval. I just wanted to

1 clarify that.

2 DR. SUGAR: One of the problems we get into
3 is wordsmithing the words, concerning the wordsmithing of
4 the other words, but additional conditions.

5 DR. GRIMMETT: Mike Grimmer. There are some
6 additions to the labeling list that I provided that will be
7 a separate consideration because I don't have them written
8 down. Did you write them down, Dr. Weiss?

9 DR. WEISS: I wrote them down as you were
10 commenting.

11 DR. GRIMMETT: Okay. I make a motion to
12 include the labeling issues as I've typed in my sheet dated
13 November 30th with the following modification: the No. 10,
14 we were going to change the reduction of to include
15 statement regarding the spectacle or contact lens
16 dependence and No. 13 we just dealt with, so eliminate No.
17 13.

18 If I could make a motion that those following
19 labeling suggestions be accepted.

20 DR. SUGAR: Is there a second?

21 DR. ROSENTHAL: Rosenthal. Could you just --
22 I don't want you to go through all of the -- if you could
23 just go through the category, you know --

24 DR. GRIMMETT: Sure.

25 DR. ROSENTHAL: Labeling issues relating to

1 blah, blah, blah.

2 DR. GRIMMETT: Sure.

3 DR. ROSENTHAL: So we can have it on record.

4 MS. THORNTON: Read the complete list as you
5 have discussed and are adding on the complete list into the
6 record, please.

7 DR. ROSENTHAL: I'll just clarify with Nancy
8 Pulowsky. We don't need to go over every single one, but I
9 think the general idea of --

10 MS. THORNTON: Right, right.

11 DR. SUGAR: He can't just say number 1,
12 number 2, number 3?

13 DR. GRIMMETT: Labeling issues, No. 1, best
14 corrected visual acuity loss greater than or equal to two
15 lines.

16

1 No. 2, issues related to subjective
2 symptom data.

3 No. 3, issues related to inductive of
4 cylinder data.

5 No. 4, data regarding loss of incorrect
6 visual acuity with induced cylinder.

7 No. 5, data or statement regarding
8 cylinder axis shifts.

9 No. 6, predictability data.

10 No. 7, statement regarding or data
11 regarding post-operative standard deviations of the
12 mean being wider than the pre-op standard deviation of
13 the mean refraction.

14 No. 8, statement regarding decreased
15 efficacy as the level of pre-op hyperopia increases.

16 No. 9, statement regarding that the
17 procedure is refractively unstable.

18 No. 10, statement regarding the spectacle
19 of contact lens dependence following the procedure.

20 No. 11, a statement regarding rates of
21 dissatisfaction and quality of vision improvement.

22 No. 12, a statement regarding lack of
23 retreatment data.

24 DR. SUGAR: And that has been seconded?

25 DR. WEISS: I'll second that.

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1 DR. SUGAR: Okay. And are there
2 . amendments to the motion?

3 Jayne and then Jose.

4 DR. WEISS: Jayne Weiss. I would just add
5 some amendment as I was scribing the suggestions that
6 have been added to this point, one being I think Dr.
7 Pulido's recommendation that implantable electrical
8 devices are contraindications for this procedure. I
9 think Dr. Pulido also suggested that the effect in
10 patients with narrow angles is not known.

11 Dr. Bradley had wanted labeling to include
12 a better description of the procedure for the patient,
13 including the fact that it involved needle placement
14 in the cornea and the fact that data beyond 12 months
15 is not available at this point.

16 DR. SUGAR: Was there also something about
17 over-correction and the word "gentle heating."

18 DR. WEISS: Yes, Jayne Weiss. I did leave
19 out my suggestion which is that the patient be
20 informed that initially there would be an overshoot or
21 over correction and that it might take 6 to 9 months
22 before most of the result is reached and also Dr.
23 Bradley's suggestion that the word "gentle heating" be
24 removed.

25 DR. SUGAR: Is there a second to the

1 amendment?

2 Jose, do you have more to add?

3 DR. PULIDO: No, I second her appended
4 amendment.

5 DR. SUGAR: Is there discussion of the
6 motion with its 17 points? All those in favor of the
7 listed additional conditions, signify by raising their
8 hand?

9 DR. HO: There's a comment over there.

10 DR. SUGAR: I'm sorry, please.

11 DR. MATOBA: Yes, Alice Matoba. My
12 comment was simply that Dr. Weiss' last addition that
13 the data, we do not have data after 12 months. That
14 should be placed in 9 so that when we say it's
15 unstable, it's understood that we only have data up to
16 12 months and we don't know whether it's stable or
17 unstable after that time period.

18 DR. SUGAR: Do you accept that, Jayne?

19 DR. WEISS: Yes, I do.

20 DR. SUGAR: And Jose?

21 DR. PULIDO: I would, yes.

22 DR. SUGAR: So Ralph, has it been
23 adequately stated?

24 DR. ROSENTHAL: You've included all the
25 labeling issues?

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1 DR. SUGAR: I believe so. Are there
2 additional labeling issues that anyone would like to
3 add?

4 Yes?

5 DR. HUANG: Andrew Huang. I'd like to
6 add. I think we should probably clarify one of the
7 labeling indications that the higher amount of
8 hyperopia has less effect, but you probably included
9 it in one of the points.

10 DR. GRIMMETT: I believe that's No. 8.

11 DR. SUGAR: Okay.

12 DR. GRIMMETT: I included it by stating
13 three pieces of information that support that tenet.

14 DR. SUGAR: Okay, is there any confusion
15 about the motion?

16 This condition with its numerous points is
17 now up for vote. All those in favor, signify by
18 raising their hand.

19 [Vote taken.]

20 DR. SUGAR: Those opposed? Those
21 abstaining? So none opposed, one abstaining, nine in
22 favor.

23 I believe that we have covered everything
24 that's been presented thus far. Is there anything
25 that we have missed? Are there any additional motions

1 that anyone would like to make or any additional
2 modifications?

3 Please?

4 DR. HUANG: I would like to recommend to
5 the sponsor to continue to monitor the patient beyond
6 24 months.

7 DR. SUGAR: Okay, a suggestion has been
8 made that we request additional follow-up data from
9 the sponsor.

10 DR. ROSENTHAL: Could you put that in as
11 a motion?

12 DR. SUGAR: As a condition of approval
13 which is clarified to us as to what exactly you want.

14 DR. SUGAR: So if we could form that up a
15 little better, go ahead.

16 DR. GRIMMETT: Well, I have a question
17 first. Mike Grimmett. Isn't it tacitly assumed that
18 since the study was designed for 24 months, they're at
19 least going to go to 24 months and submit the data?

20 No?

21 DR. SUGAR: It doesn't hurt to ask for it
22 anyway, I think.

23 DR. ROSENTHAL: I don't think you can
24 tacitly assume anything.

25 DR. GRIMMETT: Okay.

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1 DR. ROSENTHAL: We're asking for your
2 recommendations.

3 DR. GRIMMETT: I'd like to make the first
4 motion that this study be completed to the 24-month
5 interval with submission of the data for FDA review.

6 DR. SUGAR: As a condition for approval or
7 subsequent to approval?

8 DR. GRIMMETT: Post-market evaluation that
9 the study simply needs to be continued and not stopped
10 at this time point.

11 DR. SUGAR: Was that the sense of your
12 motion?

13 DR. HUANG: Yes.

14 DR. SUGAR: So the motion has been made
15 and effectively seconded, is that fair?

16 DR. GRIMMETT: Yes.

17 DR. SUGAR: Discussion? All those in
18 favor?

19 [Vote taken.]

20 DR. SUGAR: Nine. Opposed? Abstaining?
21 One.

22 Any additional conditions or motions?

23 DR. McMAHON: Would it be reasonable to
24 ask the sponsor to supply data on retreatments,
25 post-market study?

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1 DR. SUGAR: I guess we can discuss that as
2 an issue, not as a motion. One of the conditions we
3 had was the statement that there is lack of
4 retreatment data. Whether we -- and we can say what
5 we want, but whether we want to make that a condition
6 for the approval or not, I think is the issue at hand
7 here. Does anyone -- are you suggesting that as a
8 motion, Tim, or not?

9 DR. McMAHON: It's an issue that has me a
10 little bit concerned and I guess I'd want this erred
11 before we leave as to whether the rest of you feel the
12 same way and want to make that a higher priority issue
13 and a part of the approval process.

14 DR. SUGAR: My question, if it's
15 appropriate for me to comment is whether -- we would
16 love to have that information. I presume the sponsor
17 would too. Whether it's appropriate in approving
18 what's been presented to us or not approving what's
19 been presented to us to ask for that or not, I don't
20 know. I don't -- this process --

21 DR. McMAHON: That's why I raised it as a
22 question is I don't know if it's an appropriate
23 question.

24 DR. SUGAR: Ralph?

25 DR. ROSENTHAL: We're asking for a Panel

1 recommendation and I really don't want to comment
2 what's appropriate or what's inappropriate. I mean
3 you have to consider least burdensome issues and you
4 have to consider what is scientifically required and
5 you have to consider what is necessary to label the
6 PMA.

7 DR. SUGAR: Dr. Ho, did you want to
8 comment?

9 DR. HO: In my view, I think that's a very
10 important issue, but I think that I would not require
11 it as a condition of approval of this particular PMA.
12 I think there are potentially incentives for the
13 company and for the public, later on, as a separate
14 study for that to be performed, but I would not view
15 that as a condition for approval of this PMA.

16 DR. SUGAR: Is there additional discussion
17 of the nonmotion? Are there any additional issues?
18 Please.

19 DR. GRIMMETT: Mike Grimmett. We just
20 discussed and approved a motion for post-market
21 evaluation to 24 months. I think that assumes that
22 stability will be at least established or reached
23 during that time interval. I just would like to raise
24 the point what if stability is not reached by 24
25 months? Would people be in favor of having the study

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1 continued longer or what's the sense about that?

2 DR. SUGAR: Jose?

3 DR. PULIDO: Jose Pulido. I don't think
4 so because the 2-year point we're doing just to see if
5 it continues to be a temporary -- to leave it as a
6 temporary situation. If at two years the company sees
7 that there still hasn't been any stability, then they
8 can't come back to us and say well I want to change
9 this. So it's now on the company's side to determine
10 whether they want to continue it past the 2-year point
11 or not.

12 DR. SUGAR: Please.

13 MR. MCCARLEY: I'd simply suggest that if
14 you're going to ask for the 2-year data as a condition
15 of approval, then the company be permitted or
16 required, whichever way you want to look at this, to
17 put that in the labeling when that information becomes
18 available and it's been reviewed by FDA because then
19 you're going to know what you want to know now and it
20 may be in their favor. It may be still a question.

21 DR. SUGAR: The sense I have is that
22 that's implied in our motion, is that correct?

23 MS. THORNTON: Yes.

24 DR. MATOBA: I think we're ready for
25 voting on the main motion with its conditions,

1 including the changes in indication, the labeling
2 changes and the continuation of the study for 24
3 months. Is there anything we have missed?

4 So that motion, I guess, was the original
5 motion, so we need to vote on the package. And no
6 additional motion needs to be made, correct?

7 So can I say all in favor?

8 MS. THORNTON: Yes.

9 DR. SUGAR: Thank you. All those in
10 favor, signify by raising their hand? All those
11 opposed? One opposed.

12 [Vote taken.]

13 DR. SUGAR: So the motion carries and we
14 now poll the Panel for a comment on their vote. We
15 should be in with Dr. Pulido.

16 DR. PULIDO: Jose Pulido. I voted
17 approvable with conditions. And I believe that this
18 is a device that can temporarily and unpredictably
19 diminish hyperopia and with these conditions that
20 shows that is the case.

21 DR. McMAHON: Tim McMahon. I voted for
22 approval with conditions for essentially the same
23 reasons.

24 DR. BRADLEY: Arthur Bradley. I voted
25 against approval. Basically, I think the CK procedure

1 has been shown to be unreliable, inaccurate and
2 unstable. However, the accuracy and reliability did
3 improve during the first year post-op and results from
4 previous thermal keratoplasty procedures make it
5 likely that the rate -- sorry, make it likely that the
6 rate of change of regression will decline within the
7 second year. Therefore, I feel that it's premature at
8 this time to approve this device and I would like to
9 wait until evidence of stability before voting for
10 approval.

11 DR. WEISS: Jayne Weiss. I voted
12 approvable with conditions because I think the sponsor
13 has satisfactorily met the criteria set forth by FDA.
14 I have concerns about the shifting axis and amount of
15 astigmatism, but that will be addressed in patient
16 labeling. I also have concerns about the fact that
17 stability had not been reached at 12 months, but I
18 think the consumer is protected by indicating at the
19 present time this is a temporary correction of
20 hyperopia.

21 DR. GRIMMETT: Michael Grimmett. I
22 unenthusiastically voted approvable with conditions as
23 I believe the procedure is reasonably safe, yet only
24 marginally effective. I'm uncomfortable with the lack
25 of stability of the procedure, but with the conditions

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1 and labeling conditions that we approved, I feel the
2 consumer should have an adequate chance of achieving
3 the appropriate information in order to make an
4 informed consent about this procedure.

5 DR. MATOBA: Alice Matoba. I voted for
6 approval with conditions. I think the procedure is
7 reasonably safe and fairly effective and the sponsors
8 did meet the criteria set by the FDA.

9 DR. HO: Allen Ho, approvable with
10 conditions. I think that this a safe procedure. Its
11 efficacy seems to be marginal to fair in my view. I
12 think they've met the criteria set forth by the
13 guidelines of the FDA a priori and with the conditions
14 that are specified in the labeling, I'm comfortable
15 with that.

16 DR. JURKUS: Jan Jurkus. I voted
17 approvable with conditions since the conditions that
18 we had so thoroughly discussed adequately reflected my
19 concerns with this product.

20 DR. MATHERS: Bill Mathers. I voted
21 approvable with conditions. I believe that the device
22 fulfills the FDA's requirements and is reasonably
23 effective and reasonably safe and that the labeling
24 will indicate to the public how it can understand the
25 proper use of the device.

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1 DR. HUANG: Andrew Huang. I voted for
2 approval with conditions based on the fact that I
3 think this is a relatively safe procedure, yet the
4 effect is unsustainable. But I do believe that with the
5 condition provided by the Panel that physicians, as
6 well as the patient, now can make an informed decision
7 on this procedure.

8 DR. SUGAR: Thank you. PMA P010018 then
9 has been dealt with.

10 I'd like to just make a statement. This
11 is the end of my tenure on the Committee and as Chair
12 of the Committee, even though it was brief, I went to
13 the American Academy of Ophthalmology a couple of
14 weeks ago and there was a videotape presented by Bobby
15 Osher that was titled "FDA or DWB", something like
16 that, FDA meaning you guys or DWB which is Doing
17 What's Best and I having come into this a little bit
18 skeptically have learned that the people here are
19 doing what is best under the circumstances with which
20 they have to work and I've been extremely impressed
21 with people at all levels of the FDA involved with
22 CDRH and have enjoyed working with them. Thank you.

23 MS. THORNTON: Thank you, Joel. We have
24 enjoyed very much working with you and we're sorry to
25 have had to have you for Chair for such a short time.

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1 It's been a pleasure working with all of you and I'd
2 like to welcome again our new consultants to the table
3 and our new industry rep and hopefully this hasn't
4 been total shock treatment, but you'll be willing to
5 come back and help us out in the future.

6 At this time I'd just like to reiterate
7 that we will be having a meeting January 17th and 18th
8 next year. Until that time -- what?

9 DR. SUGAR: Do you leave the papers?

10 MS. THORNTON: Yes. I'd like all the --
11 by the way, but I did want to say until that time I
12 hope that you all have a happy and a safe holiday.

13 I'd like the Panel to leave all materials
14 that were issued to them to review for this meeting at
15 the table. And please fill out for your benefit at
16 future meetings, please fill out this evaluation form
17 that I left at your table at the beginning of the
18 meeting.

19 Thank you again.

20 (Whereupon, at 3:46 p.m. the meeting was
21 adjourned.)

22

23

24

25

CERTIFICATE

This is to certify that the foregoing transcript in the
matter of: Ophthalmic Devices Panel Meeting

Before: DHHS/PHS/FDA/CDRH

Date: November 30, 2001

Place: Gaithersburg, MD

represents the full and complete proceedings of the
aforementioned matter, as reported and reduced to
typewriting.


